



2014, XXII, 194 p. 43 illus., 32 illus. in color.

Printed book

Hardcover

109,99 € | £99.99 | \$139.99

^[1]117,69 € (D) | 120,99 € (A) | CHF 130,00

Softcover

84,99 € | £74.99 | \$109.99

^[1]90,94 € (D) | 93,49 € (A) | CHF 100,50

eBook

71,68 € | £59.99 | \$84.99

^[2]71,68 € (D) | 71,68 € (A) | CHF 80,00

Available from your library or springer.com/shop

MyCopy ^[3]

Printed eBook for just

€ | \$ 24.99

springer.com/mycopy

Stéphane Hallegatte

Natural Disasters and Climate Change

An Economic Perspective

- Explores economic analysis of disaster consequences with decision-making and policy design for risk management
- Discusses the management of natural risks, taking into account climate change, and the deep uncertainty in climate projections
- Presents methodologies for assessing disaster costs, including indirect and intangible impacts, and interprets trends in losses

This book explores economic concepts related to disaster losses, describes mechanisms that determine the economic consequences of a disaster, and reviews methodologies for making decisions regarding risk management and adaptation. The author addresses the need for better understanding of the consequences of disasters and reviews and analyzes three scientific debates on linkage between disaster risk management and adaptation to climate change. The first involves the existence and magnitude of long-term economic impact of natural disasters on development. The second is the disagreement over whether any development is the proper solution to high vulnerability to disaster risk. The third debate involves the difficulty of drawing connections between natural disasters and climate change and the challenge in managing them through an integrated strategy. The introduction describes economic views of disaster, including direct and indirect costs, output and welfare losses, and use of econometric tools to measure losses. The next section defines disaster risk, delineates between "good" and "bad" risk-taking, and discusses a pathway to balanced growth. A section entitled "Trends in Hazards and the Role of Climate Change" sets scenarios for climate change analysis, discusses statistical and physical models for downscaling global climate scenarios to extreme event scenarios, and considers how to consider extremes of hot and cold, storms, wind, drought and flood. Another section analyzes case studies on hurricanes and the US coastline; sea-level rises and storm surge in Copenhagen; and heavy precipitation in Mumbai. A section on Methodologies for disaster risk management includes a study on cost-benefit analysis of coastal protections in New Orleans, and one on early-warning systems in developing countries.

Order online at springer.com / or for the Americas call (toll free) 1-800-SPRINGER / or email us at: customerservice@springernature.com. / For outside the Americas call +49 (0) 6221-345-4301 / or email us at: customerservice@springernature.com.

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

